

Title (en)

MOUNTING FOR DISK DRIVE UNIT AND METHOD OF HANDLING

Title (de)

HALTEVORRICHTUNG FÜR PLATTENEINHEIT UND VERFAHREN ZUR HANDHABUNG

Title (fr)

STRUCTURE DE MONTAGE DE LECTEUR DE DISQUE ET PROCEDE DE MANIPULATION

Publication

EP 1421587 A1 20040526 (EN)

Application

EP 02753149 A 20020822

Priority

- GB 0203871 W 20020822
- US 31535001 P 20010829

Abstract (en)

[origin: US7088541B2] A mounting for a disk drive unit includes a carrier for carrying a disk drive unit during required movement of the disk drive unit. The carrier defines a space into which the disk drive unit can be inserted, and the carrier is adapted to be inserted with the disk drive unit into a receiving frame for operational use. At least two resilient devices are mounted on the carrier for securing the disk drive unit in the receiving frame when the carrier is inserted into the frame, at least one resilient device being mounted on each side of the carrier. Each resilient device is movably mounted on the carrier to allow movement of the device as a whole relative to the carrier and the resilient device is arranged to secure the disk drive unit in the receiving frame by acting between the disk drive unit and the receiving frame. A method of handling the disk drive unit includes placing the disk drive unit into the carrier engaging a robotic device with a coupling structure projecting from the front of the carrier. The method then includes lifting the carrier by the robotic device and inserting the carrier into a receiving frame by a substantially horizontal movement.

IPC 1-7

G11B 33/12; **G11B 33/08**

IPC 8 full level

G06F 1/18 (2006.01); **G11B 33/02** (2006.01); **G11B 33/08** (2006.01); **G11B 33/12** (2006.01)

CPC (source: EP US)

G06F 1/184 (2013.01 - EP US); **G06F 1/187** (2013.01 - EP US); **G11B 33/022** (2013.01 - EP US); **G11B 33/08** (2013.01 - EP US); **G11B 33/125** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03021598 A1 20030313; AT E318443 T1 20060315; AT E343840 T1 20061115; CN 100423125 C 20081001; CN 100505079 C 20090624; CN 1561520 A 20050105; CN 1561521 A 20050105; DE 60209357 D1 20060427; DE 60209357 T2 20061130; DE 60215680 D1 20061207; DE 60215680 T2 20070823; EP 1421587 A1 20040526; EP 1421587 B1 20060222; EP 1428217 A1 20040616; EP 1428217 B1 20061025; HK 1063238 A1 20041217; HK 1063239 A1 20041217; MY 127281 A 20061130; MY 129822 A 20070531; US 2005007691 A1 20050113; US 7088541 B2 20060808; WO 03021597 A1 20030313

DOCDB simple family (application)

GB 0203880 W 20020822; AT 02751450 T 20020822; AT 02753149 T 20020822; CN 02819262 A 20020822; CN 02819263 A 20020822; DE 60209357 T 20020822; DE 60215680 T 20020822; EP 02751450 A 20020822; EP 02753149 A 20020822; GB 0203871 W 20020822; HK 04105945 A 20040809; HK 04105946 A 20040809; MY PI20023205 A 20020828; MY PI20023206 A 20020828; US 48740304 A 20040802